

TDMS No. 20701 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE NASAL

Species/Strain: MICE/B6C3F1

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Nanoscale material (Fullerene-C60 1 micron)

CAS Number: 99685-96-8

Date Report Requested: 03/19/2010

Time Report Requested: 08:59:09

First Dose M/F: 11/05/07 / 11/05/07

Lab: BNW

F1_M3

C Number: C20701

Lock Date: 02/24/2009

Cage Range: ALL

Date Range: ALL

Reasons For Removal: ALL

Removal Date Range: ALL

Treatment Groups: Include ALL

Study Gender: Both

TDMSE Version: 2.2.0

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B6C3F1 MICE MALE

0 mg/m3

2 mg/m3

15 mg/m3

30 mg/m3

Disposition Summary

Animals Initially In Study

10

10

10

10

Early Deaths

Moribund Sacrifice

1

Survivors

Terminal Sacrifice

10

9

10

10

Animals Examined Microscopically

10

10

10

10

ALIMENTARY SYSTEM

Liver

(10)

(1)

(0)

(10)

Inflammation, Granulomatous

1 (10%)

Necrosis

1 (10%)

Stomach, Forestomach

(10)

(1)

(0)

(10)

Hyperplasia, Squamous

1 (100%)

Ulcer

1 (100%)

CARDIOVASCULAR SYSTEM

Heart

(10)

(1)

(0)

(10)

ENDOCRINE SYSTEM

None

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

None

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HEMATOPOIETIC SYSTEM

Lymph Node, Bronchial

(6)

(4)

(5)

(9)

Pigmentation

2 (33%)

1 (25%)

2 (40%)

9 (100%)

Lymph Node, Mandibular

(5)

(1)

(0)

(4)

Lymph Node, Mesenteric

(9)

(1)

(0)

(10)

Spleen

(10)

(1)

(0)

(10)

Thymus

(10)

(1)

(0)

(10)

INTEGUMENTARY SYSTEM

None

MUSCULOSKELETAL SYSTEM

None

NERVOUS SYSTEM

None

RESPIRATORY SYSTEM

Larynx

(10)

(9)

(10)

(10)

Metaplasia, Squamous

1 (10%)

5 (50%)

9 (90%)

Squamous Epithelium, Hyperplasia

1 (11%)

Lung

(10)

(10)

(10)

(10)

Hemorrhage

1 (10%)

Inflammation, Chronic Active

10 (100%)

10 (100%)

Pigmentation

4 (40%)

10 (100%)

10 (100%)

Alveolus, Infiltration Cellular, Histiocyte

10 (100%)

10 (100%)

Nose

(10)

(1)

(0)

(10)

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B6C3F1 MICE MALE	0 mg/m3	2 mg/m3	15 mg/m3	30 mg/m3
Olfactory Epithelium, Accumulation, Hyaline Droplet				1 (10%)
Respiratory Epithelium, Accumulation, Hyaline Droplet				1 (10%)
SPECIAL SENSES SYSTEM				
Harderian Gland	(10)	(1)	(0)	(10)
Inflammation, Acute	7 (70%)			7 (70%)
URINARY SYSTEM				
Kidney	(10)	(10)	(10)	(10)
Nephropathy	1 (10%)	2 (20%)		2 (20%)
Papilla, Infiltration Cellular, Polymorphonuclear	1 (10%)			
Renal Tubule, Necrosis	1 (10%)		1 (10%)	3 (30%)

*** END OF MALE ***

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Disposition Summary

Animals Initially In Study

10

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10

Early Deaths

Survivors

Terminal Sacrifice

10

10

10

10

Animals Examined Microscopically

10

10

10

10

ALIMENTARY SYSTEM

Liver

(10)

(0)

(0)

(10)

Necrosis

1 (10%)

CARDIOVASCULAR SYSTEM

None

ENDOCRINE SYSTEM

None

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

None

HEMATOPOIETIC SYSTEM

Lymph Node, Bronchial

(5)

(6)

(5)

(6)

Pigmentation

2 (40%)

3 (50%)

1 (20%)

6 (100%)

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INTEGUMENTARY SYSTEM				
Mammary Gland	(10)	(0)	(0)	(10)
Inflammation, Acute				1 (10%)
MUSCULOSKELETAL SYSTEM				
None				
NERVOUS SYSTEM				
None				
RESPIRATORY SYSTEM				
Larynx	(10)	(8)	(10)	(10)
Metaplasia, Squamous		1 (13%)	6 (60%)	9 (90%)
Lung	(10)	(10)	(10)	(10)
Hemorrhage	1 (10%)			
Inflammation, Chronic Active			3 (30%)	10 (100%)
Pigmentation		4 (40%)	10 (100%)	10 (100%)
Alveolus, Infiltration Cellular, Histiocyte			3 (30%)	10 (100%)
Nose	(10)	(0)	(0)	(10)
Olfactory Epithelium, Accumulation, Hyaline Droplet				2 (20%)
Respiratory Epithelium, Accumulation, Hyaline Droplet	5 (50%)			4 (40%)
SPECIAL SENSES SYSTEM				
Eye	(10)	(0)	(0)	(10)
Cornea, Necrosis	1 (10%)			

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Harderian Gland Inflammation, Acute	(10) 3 (30%)	(0)	(0)	(10) 7 (70%)
URINARY SYSTEM				
Kidney Nephropathy	(10) 1 (10%)	(0)	(0)	(10) 1 (10%)

*** END OF REPORT ***

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